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Signed By

GARY GILLELAND

Organization

WESTERN FARMERS ELECTRIC COOPERATIVE

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Agreement #1

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I agree that use of this System combined with the user's login and password to sign the submission document constitutes an electronic signature equivalent to my written signature. I have reviewed the electronic report being submitted in its entirety and agree to the validity, accuracy, and completeness of the information contained within it to the best of my knowledge. I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

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Confirmation Number

S20220329131317-F1700-R2021

2021 Emissions Inventory Report
WESTERN FARMERS ELECTRIC COOPERATIVE (471)
Emissions Summary for HUGO POWER PLANT (1700)

CRITERIA AIR POLLUTANT (CAP) EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Total Emissions (tons)*
CO	Carbon Monoxide	141.086
NOX	Nitrogen Oxides (NOx) expressed as NO2	957.442
PM10-PRI	PM10 - Primary (Filterable + Condensable)	25.334
PM25-PRI	PM2.5 - Primary (Filterable + Condensable)	23.437
SO2	Sulfur Oxides (SOx) expressed as SO2	2,427.064
VOC	Volatile Organic Compounds (VOCs)	40.556

HAZARDOUS AIR POLLUTANT (HAP) and/or OTHER POLLUTANT EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*
7439921	Lead (CAP-HAP)	PM	0.019
75070	Acetaldehyde (HAP-TOX)	VOC	0.159
107028	Acrolein (HAP)	VOC	0.081
7440360	Antimony (HAP)	PM	0.003
7440382	Arsenic (HAP-TOX)	PM	0.002
71432	Benzene (including benzene from gasoline) (HAP-TOX)	VOC	0.364
100447	Benzyl chloride (HAP)	VOC	0.196
117817	Bis(2-ethylhexyl)phthalate (DEHP) (HAP)	VOC	0.02
7440439	Cadmium (HAP-TOX)	PM	<.001
75150	Carbon disulfide (HAP)	VOC	0.036
67663	Chloroform (HAP-TOX)	VOC	0.017
7440473	Chromium (HAP-TOX)	PM	0.004
7440484	Cobalt (HAP)	PM	0.006
57125	Cyanide (HAP)	VOC	0.699
100414	Ethyl benzene (HAP-TOX)	VOC	0.026
50000	Formaldehyde (HAP-TOX)	VOC	0.079
110543	Hexane (HAP)	VOC	0.019
7647010	Hydrochloric acid (HAP)	PM	4.367
7664393	Hydrogen fluoride (Hydrofluoric acid) (HAP)	PM	1.682

Pollutant Code/CAS #	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*
78591	Isophorone (HAP)	VOC	0.162
7439965	Manganese (HAP-TOX)	PM	0.004
7439976	Mercury (HAP-TOX)	PM	0.004
74839	Methyl bromide (Bromomethane) (HAP)	VOC	0.045
74873	Methyl chloride (Chloromethane) (HAP)	VOC	0.148
60344	Methyl hydrazine (HAP)	VOC	0.048
75092	Methylene chloride (Dichloromethane) (HAP-TOX)	-	0.081
91203	Naphthalene (HAP)	VOC	0.004
7440020	Nickel (HAP-TOX)	PM	0.006
7723140	Phosphorus (HAP)	PM	0.002
250	Polycyclic Organic Matter (HAP)	VOC	0.006
123386	Propionaldehyde (HAP)	VOC	0.106
7782492	Selenium (HAP)	PM	0.026
7664939	Sulfuric acid (including acid mist expressed as H ₂ SO ₄) (OTH)	PM	1.823
108883	Toluene (HAP-TOX)	VOC	0.069
*Rounded to 3 digits past the decimal point. Note that where rounding results in 0, <.001 is indicated.			

2021 Emissions Inventory Report
WESTERN FARMERS ELECTRIC COOPERATIVE (471)
HUGO POWER PLANT (1700)

COMPANY

Mailing Address:	701 NE 7TH ST ANADARKO, OK 73005
Contact Phone:	(405) 247-3351
Contact FAX:	(405) 247-4499

FACILITY

Facility Identifier:	1700	Facility Name:	HUGO POWER PLANT
Status:	OP - Operating	Status Year:	
NAICS:	221112 (Primary) - Fossil Fuel Electric Power Generation		
Comments:			

FACILITY - ADDRESS

Location Address:	970N 4335 Rd FORT TOWSON, OK 74735
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FACILITY - LOCATION

Latitude (decimal degrees):	34.01633	Longitude (decimal degrees):	-95.32188
Collection Method:	020 - interpolation-satellite	Data Collection Date:	09/22/2009
Geographic Reference Point:	102 - Center of a Facility/System	Geodetic Reference System:	003 - World Geodetic System of 1984

FACILITY - ADDITIONAL INFORMATION

Field Name	Field Value
Oil & Gas Facility Category	Not Applicable
Permit Number(s)	97-058-C M-5,97-058-C M-2 PSD,2018-0916-ARR4,2018-0201-TVR2
SIC Number	4911
TRI Identifier (ID)	74735WSTRNHwy70

RELEASE POINTS					
ID	Type	Description	Status	Details	Location
10724	Vertical	HU-Unit1, P1 - Electric Power Coal Generation Unit	OP in 2002	Height: 500.0 FEET, Shape: Circular, Diameter: 26.0 FEET, Temperature: 260.0 F, Flow Rate: 1,500,000.0 ACFM Velocity: 47.087 FPS	Lat/Long: (34.01472, -95.32102)
10726	Fugitive Area	P-19 Fuel Oil Storage Tank	OP in 2002	Fugitive Height: 48.0 FEET, Fugitive Width: 7.0 FEET, Fugitive Length: 7.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
10727	Fugitive Area	Open Coal Storage Pile 1	OP in 2002	Fugitive Height: 61.0 FEET, Fugitive Width: 1,021.0 FEET, Fugitive Length: 1,021.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
30400	Fugitive Area	HU-Ash1, P-13 Truck Loading and Unloading	OP in 2004	Fugitive Height: 20.0 FEET, Fugitive Width: 214.0 FEET, Fugitive Length: 214.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
33337	Fugitive Area	HU-Coal1, P-3 Railcar Unloading Rotary Dump	OP in 2005	Fugitive Height: 12.0 FEET, Fugitive Width: 4.0 FEET, Fugitive Length: 4.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
38807	Vertical	P-22 Emergency Diesel Generator	OP in 2007	Height: 17.0 FEET, Shape: Circular, Diameter: 1.2 FEET, Temperature: 770.0 F, Flow Rate: 10,500.0 ACFM Velocity: 154.73 FPS	Uses Facility Site Location
41424	Horizontal	HU-Ash2, P-14 Fly Ash Conveying Storage	OP in 2007	Height: 150.0 FEET, Shape: Circular, Diameter: 1.1 FEET, Temperature: 85.0 F, Flow Rate: 3,250.0 ACFM Velocity: 56.04 FPS	Uses Facility Site Location
41425	Horizontal	HU-Ash3, P-15 Fly Ash Silo Load Out	OP in 2007	Height: 150.0 FEET, Shape: Circular, Diameter: 1.1 FEET, Temperature: 85.0 F, Flow Rate: 3,250.0 ACFM Velocity: 56.04 FPS	Uses Facility Site Location
41436	Horizontal	Open Coal Storage Pile 2	OP in 2012	Height: 8.0 FEET, Shape: Circular, Diameter: 2.45 FEET, Temperature: 85.0 F, Flow Rate: 20,000.0 ACFM Velocity: 70.7 FPS	Uses Facility Site Location
41459	Fugitive Area	HU-Coal3, P-5 Crushing	OP in 2007	Fugitive Height: 12.0 FEET, Fugitive Width: 4.0 FEET, Fugitive Length: 4.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
41460	Fugitive Area	HU-Coal4, P-6 Active Storage Pile-Load in by Conveyor	OP in 2007	Fugitive Height: 40.0 FEET, Fugitive Width: 114.0 FEET, Fugitive Length: 114.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
41461	Fugitive Area	HU-Coal5, P-7 Active Storage Pile-Load out under Pile Reclaim	OP in 2007	Fugitive Height: 2.0 FEET, Fugitive Width: 114.0 FEET, Fugitive Length: 114.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
41462	Fugitive Area	HU-Coal6, P-8 Inactive Storage Pile-Load in by Conveyor	OP in 2007	Fugitive Height: 2.0 FEET, Fugitive Width: 114.0 FEET, Fugitive Length: 114.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
41629	Horizontal	HU-Coal2, P-4 Conveying (from Railcar)	OP in 2007	Height: 186.0 FEET, Shape: Circular, Diameter: 2.17 FEET, Temperature: 85.0 F, Flow Rate: 12,000.0 ACFM Velocity: 54.08 FPS	Uses Facility Site Location
44149	Fugitive Area	1A Cooling Tower Stack	OP in 2006	Fugitive Height: 28.0 FEET, Fugitive Width: 69.0 FEET, Fugitive Length: 69.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
44151	Fugitive Area	1B Cooling Tower Stack	OP in 2006	Fugitive Height: 28.0 FEET, Fugitive Width: 69.0 FEET, Fugitive Length: 69.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
44153	Vertical	Auxiliary Cooling Tower Stack	OP in 2017	Height: 55.0 FEET, Shape: Circular, Diameter: 28.0 FEET, Temperature: 90.0 F, Flow Rate: 2,558,780.0 ACFM Velocity: 69.26 FPS	Uses Facility Site Location
46174	Fugitive Area	P-20 Gasoline Storage Tanks	OP in 2007	Fugitive Height: 11.0 FEET, Fugitive Width: 3.0 FEET, Fugitive Length: 3.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
47300	Fugitive Area	P-21 Diesel Storage Tank	OP in 2007	Fugitive Height: 35.0 FEET, Fugitive Width: 3.0 FEET, Fugitive Length: 3.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
118862	Vertical	Silo 1 Additive A SPF-10	OP in 2015	Height: 150.0 FEET, Shape: Circular, Diameter: 1.1 FEET, Temperature: 85.0 F, Flow Rate: 3,250.0 ACFM Velocity: 56.04 FPS	Uses Facility Site Location
119275	Vertical	Silo 2 Powdered Activated Carbon SB-24	OP in 2015	Height: 150.0 FEET, Shape: Circular, Diameter: 1.1 FEET, Temperature: 85.0 F, Flow Rate: 3,250.0 ACFM Velocity: 56.04 FPS	Uses Facility Site Location

ID	Type	Description	Status	Details	Location
177932	Fugitive Area	HU-Ash-5, P-17 Bottom Ash Truck Loading and Unloading	OP in 2018	Fugitive Height: 20.0 FEET, Fugitive Width: 241.0 FEET, Fugitive Length: 241.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
177953	Fugitive Area	HU-Ash-6, P-18 Bottom Ash Conveyor Discharge	OP in 2018	Fugitive Height: 20.0 FEET, Fugitive Width: 214.0 FEET, Fugitive Length: 214.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
Comment: Emission unit renamed in accordance with Permit No. 2008-337-TVR (M-7) and the dry bottom ash handling system					
186810	Vertical	P-24A Emergency Engine	OP	Height: 14.0 FEET, Shape: Circular, Diameter: 0.5 FEET, Temperature: 918.0 F, Flow Rate: 2,904.0 ACFM Velocity: 246.5 FPS	Uses Facility Site Location
186811	Vertical	P-25A Emergency Engine	OP	Height: 14.0 FEET, Shape: Circular, Diameter: 0.5 FEET, Temperature: 918.0 F, Flow Rate: 2,904.0 ACFM Velocity: 246.5 FPS	Uses Facility Site Location

CONTROL DEVICES				
ID	Description	Status	Control Measure	Controlled Pollutants
125058	HU-Coal5, P-7 Dust Suppression	OP	217 - Dust Suppression	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.9%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.9%
125059	HU-Ash1, P-13 Baghouse	OP	127 - Fabric Filter / Baghouse	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.9%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.9%
125060	HU-Ash2, P-14 Baghouse	OP	127 - Fabric Filter / Baghouse	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.9%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.9%
125061	HU-Unit1, P1 - Electrostatic Precipitator - Dry (DESP)	OP	128 - Electrostatic Precipitator - Dry (DESP)	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.9%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.9%
125062	HU-Unit1, P1 - Dry Sorbent Injection (DSI, other than ACl)	OP	206 - Dry Sorbent Injection (DSI, other than ACl)	7647010-Hydrochloric acid: 10.0%, 7439976-Mercury: 10.0%
125063	HU-Coal6, P-8 Dust Suppression	OP	217 - Dust Suppression	PM10-FR-PM10 - Primary (Filterable + Condensable): 75.0%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 75.0%
125064	HU-Coal1, P-3 Dust Suppression	OP	217 - Dust Suppression	PM10-FR-PM10 - Primary (Filterable + Condensable): 95.0%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 95.0%
152089	HU-Coal3, P-5 Dust Suppression	OP	217 - Dust Suppression	PM10-FR-PM10 - Primary (Filterable + Condensable): 95.0%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 95.0%
152090	HU-Coal2, P-4 Dust Suppression	OP	217 - Dust Suppression	PM10-FR-PM10 - Primary (Filterable + Condensable): 95.0%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 95.0%
152091	HU-Ash3, P-15 Baghouse	OP	127 - Fabric Filter / Baghouse	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.9%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.9%
152092	HU-Ash5, P-17 Wet Nature of BottomAsh	OP	99 - Other Control Device	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.9%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.9%
	Comment: Emission unit numbering was updated consistent with Permit No. 2008-337-TVR (M-7) and the dry ash handling system. The wet nature of the bottomash serves as the control device.			
152093	HU-Ash6, P-18 Wet Nature of BottomAsh	OP	99 - Other Control Device	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.9%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.9%
	Comment: Emission unit numbering was updated consistent with Permit No. 2008-337-TVR (M-7) and the dry ash handling system. The wet nature of the bottomash serves as the control device.			
152094	Silo 1 & Silo 2 Baghouse	OP	127 - Fabric Filter / Baghouse	PM10-FR-PM10 - Primary (Filterable + Condensable): 99.0%, PM25-FR-PM2.5 - Primary (Filterable + Condensable): 99.0%

EMISSION UNITS				
ID	Type	Description	Status	Details
10724	100 - Boiler	HU-Unit1, P1 - Electric Power Coal Generation Unit	OP in 2002	Operation Start : , Design Capacity: 4,600.0 EBBTU/HR
10726	400 - Storage Tank	P-19 Fuel Oil Storage Tank	OP in 2002	Operation Start : , Design Capacity:
10727	785 - Open Storage Pile	Open Coal Storage Pile 1	OP in 2002	Operation Start : , Design Capacity:
30688	770 - Transfer Point	HU-Ash1, P-13 Truck Loading and Unloading	OP in 2004	Operation Start : , Design Capacity:
33534	770 - Transfer Point	HU-Coal1, P-3 Railcar Unloading Rotary Dump	OP in 2005	Operation Start : , Design Capacity:
39057	160 - Reciprocating IC Engine	P-22 Emergency Diesel Generator	OP in 2007	Operation Start : , Design Capacity: 630.0 HP
41566	760 - Conveyor	HU-Ash2, P-14 Fly Ash Conveying Storage	OP in 2007	Operation Start : , Design Capacity:
41570	770 - Transfer Point	HU-Ash3, P-15 Fly Ash Silo Load Out	OP in 2007	Operation Start : , Design Capacity:
41607	770 - Transfer Point	HU-Coal2, P-4 Conveying (from Railcar)	OP in 2007	Operation Start : , Design Capacity:
41608	720 - Crusher	HU-Coal3, P-5 Crushing	OP in 2007	Operation Start : , Design Capacity:
41609	770 - Transfer Point	HU-Coal4, P-6 Active Storage Pile-Load in by Conveyor	OP in 2007	Operation Start : , Design Capacity:
41610	770 - Transfer Point	HU-Coal5, P-7 Active Storage Pile-Load out under Pile Reclaim	OP in 2007	Operation Start : , Design Capacity:
41611	770 - Transfer Point	HU-Coal6, P-8 Inactive Storage Pile-Load in by Conveyor	OP in 2007	Operation Start : , Design Capacity:
44151	680 - Cooling Tower	1A Cooling Tower	OP in 2006	Operation Start : , Design Capacity:
44154	680 - Cooling Tower	1B Cooling Tower	OP in 2006	Operation Start : , Design Capacity:
44157	680 - Cooling Tower	Auxiliary Cooling Tower	OP in 2017	Operation Start : , Design Capacity:
46314	400 - Storage Tank	P-20 Gasoline Storage Tanks	OP in 2007	Operation Start : , Design Capacity:
47548	400 - Storage Tank	P-21 Diesel Storage Tank	OP in 2007	Operation Start : , Design Capacity:
119093	780 - Silo	Silo 1 Additive A SFF-10	OP in 2015	Operation Start : , Design Capacity:
119636	780 - Silo	Silo 2 Powdered Activated Carbon SB-24	OP in 2015	Operation Start : , Design Capacity:
178455	770 - Transfer Point	HU-Ash-5, P-17 Bottom Ash Truck Loading and Unloading	OP in 2018	Operation Start : , Design Capacity:
	Comment: Emission unit numbering was updated was updated consistent with Permit No. 2008-337-TVR (M-7) and the dry ash handling system.			
178483	760 - Conveyor	HU-Ash-6, P-18 Bottom Ash Conveyor Discharge	OP in 2018	Operation Start : , Design Capacity:
	Comment: Emission unit numbering was updated consistent with Permit No. 2008-337-TVR (M-7) and the dry ash handling system.			
187148	785 - Open Storage Pile	Open Coal Storage Pile 2	OP	Operation Start : , Design Capacity:
187163	160 - Reciprocating IC Engine	P-24A Emergency Engine	OP	Operation Start : , Design Capacity: 600.0 HP
187164	160 - Reciprocating IC Engine	P-25A Emergency Engine	OP	Operation Start : , Design Capacity: 600.0 HP

UNIT PROCESSES					
Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
10724 HU-Unit1, P1 - Electric Power Coal Generation Unit	55416	10100201	Bituminous Coal, Pulverized - Boiler, Wet Bottom	OP	Control Approach Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) and other measures <u>Control Devices:</u> 125061-HU-Unit1, P1 - Electrostatic Precipitator - Dry (DESP) , Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 125062-HU-Unit1, P1 - Dry Sorbent Injection (DSI, other than ACI), Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 10724 - HU-Unit1, P1 - Electric Power Coal Generation Unit: 100.0%
10724 HU-Unit1, P1 - Electric Power Coal Generation Unit	55417	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP	Control Approach Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) <u>Control Devices:</u> 125061-HU-Unit1, P1 - Electrostatic Precipitator - Dry (DESP) , Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 125062-HU-Unit1, P1 - Dry Sorbent Injection (DSI, other than ACI), Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 10724 - HU-Unit1, P1 - Electric Power Coal Generation Unit: 100.0%
10724 HU-Unit1, P1 - Electric Power Coal Generation Unit	55418	10101302	Liquid Waste - Waste Oil	TS in 2017	Control Approach Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) <u>Control Devices:</u> 125061-HU-Unit1, P1 - Electrostatic Precipitator - Dry (DESP) , Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 125062-HU-Unit1, P1 - Dry Sorbent Injection (DSI, other than ACI), Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 10724 - HU-Unit1, P1 - Electric Power Coal Generation Unit: 100.0%
10726 P-19 Fuel Oil Storage Tank	55420	40400413	Petroleum Products - Underground Tanks - Distillate Fuel #2: Breathing Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 10726 - P-19 Fuel Oil Storage Tank: 100.0%
10726 P-19 Fuel Oil Storage Tank	55421	40400414	Petroleum Products - Underground Tanks - Distillate Fuel #2: Working Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 10726 - P-19 Fuel Oil Storage Tank: 100.0%
10727 Open Coal Storage Pile 1	55422	30501009	Coal Mining, Cleaning, and Material Handling - Raw Coal Storage	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 10727 - Open Coal Storage Pile 1: 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
30688 HU-Ash1, P-13 Truck Loading and Unloading	130572	30510199	Bulk Materials Conveyors - Other Not Classified	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 125059-HU-Ash1, P-13 Baghouse , Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 30400 - HU-Ash1, P-13 Truck Loading and Unloading: 100.0%
33534 HU-Coal1, P-3 Railcar Unloading Rotary Dump	140563	30501011	Coal Mining, Cleaning, and Material Handling - Coal Transfer	OP	Control Approach Controlled?: Yes Description: Dust Suppression <u>Control Devices:</u> 125064-HU-Coal1, P-3 Dust Suppression, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 33337 - HU-Coal1, P-3 Railcar Unloading Rotary Dump: 100.0%
39057 P-22 Emergency Diesel Generator	145955	20100107	Distillate Oil (Diesel) - Reciprocating: Exhaust	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 38807 - P-22 Emergency Diesel Generator: 100.0%
41566 HU-Ash2, P-14 Fly Ash Conveying Storage	149357	30510199	Bulk Materials Conveyors - Other Not Classified	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 125060-HU-Ash2, P-14 Baghouse , Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41424 - HU-Ash2, P-14 Fly Ash Conveying Storage : 100.0%
41570 HU-Ash3, P-15 Fly Ash Silo Load Out	149359	30510199	Bulk Materials Conveyors - Other Not Classified	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 152091-HU-Ash3, P-15 Baghouse , Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41425 - HU-Ash3, P-15 Fly Ash Silo Load Out: 100.0%
41607 HU-Coal2, P-4 Conveying (from Railcar)	149399	30501011	Coal Mining, Cleaning, and Material Handling - Coal Transfer	OP	Control Approach Controlled?: Yes Description: Dust Suppression <u>Control Devices:</u> 152090-HU-Coal2, P-4 Dust Suppression, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41629 - HU-Coal2, P-4 Conveying (from Railcar): 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
41608 HU-Coal3, P-5 Crushing	149400	30501010	Coal Mining, Cleaning, and Material Handling - Crushing	OP	Control Approach Controlled?: Yes Description: Dust Suppression <u>Control Devices:</u> 152089-HU-Coal3, P-5 Dust Suppression, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41459 - HU-Coal3, P-5 Crushing: 100.0%
41609 HU-Coal4, P-6 Active Storage Pile-Load in by Conveyor	149402	30501011	Coal Mining, Cleaning, and Material Handling - Coal Transfer	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 41460 - HU-Coal4, P-6 Active Storage Pile-Load in by Conveyor: 100.0%
41610 HU-Coal5, P-7 Active Storage Pile-Load out under Pile Reclaim	149404	30501011	Coal Mining, Cleaning, and Material Handling - Coal Transfer	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 125058-HU-Coal5, P-7 Dust Suppression, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41461 - HU-Coal5, P-7 Active Storage Pile-Load out under Pile Reclaim 100.0%
41611 HU-Coal6, P-8 Inactive Storage Pile- Load in by Conveyor	149406	30501011	Coal Mining, Cleaning, and Material Handling - Coal Transfer	OP	Control Approach Controlled?: Yes Description: Dust Suppression <u>Control Devices:</u> 125063-HU-Coal6, P-8 Dust Suppression, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41462 - HU-Coal6, P-8 Inactive Storage Pile-Load in by Conveyor: 100.0%
44151 1A Cooling Tower	152422	38500110	Process Cooling - Other Not Classified	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 44149 - 1A Cooling Tower Stack: 100.0%
44154 1B Cooling Tower	152424	38500110	Process Cooling - Other Not Classified	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 44151 - 1B Cooling Tower Stack: 100.0%
44157 Auxiliary Cooling Tower	152426	38500110	Process Cooling - Other Not Classified	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 44153 - Auxiliary Cooling Tower Stack: 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
46314 P-20 Gasoline Storage Tanks	154892	40400497	Petroleum Products - Underground Tanks - Other Liquids: Breathing Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 46174 - P-20 Gasoline Storage Tanks: 100.0%
46314 P-20 Gasoline Storage Tanks	154893	40400498	Petroleum Products - Underground Tanks - Other Liquids: Working Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 46174 - P-20 Gasoline Storage Tanks: 100.0%
47548 P-21 Diesel Storage Tank	156195	40400497	Petroleum Products - Underground Tanks - Other Liquids: Breathing Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 47300 - P-21 Diesel Storage Tank: 100.0%
47548 P-21 Diesel Storage Tank	156196	40400498	Petroleum Products - Underground Tanks - Other Liquids: Working Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 47300 - P-21 Diesel Storage Tank: 100.0%
119093 Silo 1 Additive A SFF-10	237263	30510199	Bulk Materials Conveyors - Other Not Classified	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 152094-Silo 1 & Silo 2 Baghouse, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 118862 - Silo 1 Additive A SFF-10: 100.0%
119636 Silo 2 Powdered Activated Carbon SB-24	237266	30510199	Bulk Materials Conveyors - Other Not Classified	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 152094-Silo 1 & Silo 2 Baghouse, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 119275 - Silo 2 Powdered Activated Carbon SB-24: 100.0%
178455 HU-Ash-5, P-17 BottomAsh Truck Loading and Unloading	303888	30510498	Bulk Materials Unloading Operation - Mineral: Specify in Comments	OP	Control Approach Controlled?: Yes Description: Control approach not specified. Assumes not controlled. <u>Control Devices:</u> 152092-HU-Ash5, P-17 Wet Nature of BottomAsh, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 177932 - HU-Ash-5, P-17 BottomAsh Truck Loading and Unloading: 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
178483 HU-Ash-6, P-18 BottomAsh Conveyor Discharge	303907	30510199	Bulk Materials Conveyors - Other Not Classified	OP	Control Approach Controlled?: Yes Description: Control approach not specified. Assumes not controlled. <u>Control Devices:</u> 152093-HU-Ash6, P-18 Wet Nature of BottomAsh, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 177953 - HU-Ash-6, P-18 BottomAsh Conveyor Discharge: 100.0%
187148 Open Coal Storage Pile 2	313219	30501009	Open Coal Storage Pile 2	OP	Control Approach Controlled?: No Description: Release Point Apportionment: 41436 - Open Coal Storage Pile 2: 100.0%
187163 P-24A Emergency Engine	313238	20100107	P-24A Emergency Engine	OP	Control Approach Controlled?: No Description: Release Point Apportionment: 186810 - P-24A Emergency Engine: 100.0%
187164 P-25A Emergency Engine	313239	20100107	P-25A Emergency Engine	OP	Control Approach Controlled?: No Description: Release Point Apportionment: 186811 - P-25A Emergency Engine: 100.0%

PROCESS EMISSIONS					
Emission Unit ID	Unit Process ID	Throughput	Operations		
10724 HU-Unit1, P1 - Electric Power Coal Generation Unit	55416 Bituminous Coal, Pulverized - Boiler, Wet Bottom	Annual Throughput: 559,440.0 TONS (Bituminous Coal) (Input)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 19.0 Actual Hours/Year: 3,266.0 Seasonal Operations: Dec-Feb: 32.0%, Mar-May: 10.0%, Jun-Aug: 50.0%, Sep-Nov: 8.0%		
			Comment: Certain metal emission factors were determined during 9/15/2011 stack testing and are based on a lb/ton coal emission factor on a dry basis. For SLES input, the coal throughput and associated emission factors are calculated and reported based on a wet basis.		
Pollutant		Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide		0.5	TON - TONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	139.86
Overall Control Efficiency: 0.0%					
7439921 - Lead		0.00006857	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.0191804004
Stack Test Date: 09/15/2011					
NOX - Nitrogen Oxides (NOx) expressed as NO2				1_0 - Continuous Emission Monitoring System (CEMS)	927.64
PM10-FR - PM10 - Primary (Filterable + Condensible)		0.03149	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	8.8083828
Stack Test Date: 06/18/2019					
Emission Comment: Based on average of MATS quarterly tests LEE demonstration tests. Stack Test date is the most recent of the LEE demonstration tests.					
PM25-FR - PM2.5 - Primary (Filterable + Condensible)		0.0247085	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	6.91146162
Stack Test Date: 06/18/2019					
Emission Comment: Based on the proportion of PM2.5 to PM10 in the 9/15/2011 stack test and applied to the average of the PM10 emissions determined during the LEE demonstration tests per DEQ guidance.					
SO2 - Sulfur Oxides (SOx) expressed as SO2				1_0 - Continuous Emission Monitoring System (CEMS)	2,420.9628
VOC - Volatile Organic Compounds (VOCs)		0.1446	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	40.447512
Stack Test Date: 09/15/2011					
75070 - Acetaldehyde		0.00057	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.159440399999999
107028 - Acrolein		0.00029	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.0811188
7440360 - Antimony		0.0000125	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.0034965
Stack Test Date: 09/15/2011					
7440382 - Arsenic		0.000007016	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.00196251552
Stack Test Date: 09/15/2011					
71432 - Benzene (including benzene from gasoline)		0.0013	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.363635999999999
100447 - Benzyl chloride		0.0007	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.195804
117817 - Bis(2-ethylhexyl)phthalate (DEHP)		0.000073	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.02041956
7440439 - Cadmium		0.000001714	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.00047944008
Stack Test Date: 09/15/2011					
75150 - Carbon disulfide		0.00013	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.036363599999999
67663 - Chloroform		0.000059	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.01650348
7440473 - Chromium		0.0000140328	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.003925254816
Stack Test Date: 09/11/2015					

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
7440484 - Cobalt	0.00002105	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.005888106
Stack Test Date: 09/15/2011				
57125 - Cyanide	0.0025	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.6993
100414 - Ethyl benzene	0.000094	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.02629368
50000 - Formaldehyde	0.00024	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.0671328
110543 - Hexane	0.000067	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.01874124
7647010 - Hydrochloric acid	0.015520655	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	4.3414376166
Stack Test Date: 01/12/2022				
Emission Comment: Based on the average of the HQ emission factors determined during the MATS LEE Quarterly Demonstration Tests for 2021. The Stack Test Date is for the most recent LEE Demonstration Test used for the average (make-up test for 4Q21).				
7664393 - Hydrogen fluoride (Hydrofluoric acid)	0.006	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	1.67832
Stack Test Date: 09/15/2011				
78591 - Isophorone	0.00058	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.1622376
7439965 - Manganese	0.00001403	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.0039244716
Stack Test Date: 09/15/2011				
7439976 - Mercury			1_0 - Continuous Emission Monitoring System (CEMS)	0.004
74839 - Methyl bromide (Bromomethane)	0.00016	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.0447552
74873 - Methyl chloride (Chloromethane)	0.00053	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.1482515999999999
60344 - Methyl hydrazine	0.00017	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.0475524
75092 - Methylene chloride (Dichloromethane)	0.00029	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.0811188
91203 - Naphthalene	0.000013	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.00363636
7440020 - Nickel	0.00002145	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.005999994
Stack Test Date: 09/15/2011				
250 - Polycyclic Organic Matter	0.0000202	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.005650344
123386 - Propionaldehyde	0.00038	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.1062936
7782492 - Selenium	0.00009295	TON - TONS	4_0 - Stack Test - US EPA Reference Method (no Control EF)	0.025999974
Stack Test Date: 09/15/2011				
7664939 - Sulfuric acid (including acid mist expressed as H2SO4)	0.00643	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	1.7985996
108883 - Toluene	0.00024	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.0671328
Emission Unit ID	Unit Process ID	Throughput		Operations
10724 HU-Unit1, P1 - Electric Power Coal Generation Unit	55417 Distillate Oil - Grades 1 and 2 - Boiler	Annual Throughput: 482.397 1000 GALLONS (Distillate Oil (No. 1 & 2)) (Input)		Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 19.0 Actual Hours/Year: 3,266.0 Seasonal Operations: Dec-Feb: 32.0%, Mar-May: 10.0%, Jun-Aug: 50.0%, Sep-Nov: 8.0%
Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide	5.0	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.2059925
Overall Control Efficiency: 0.0%				
NOX - Nitrogen Oxides (NOx) expressed as NO2			1_0 - Continuous Emission Monitoring System (CEMS)	29.7
SO2 - Sulfur Oxides (SOx) expressed as SO2			1_0 - Continuous Emission Monitoring System (CEMS)	6.1

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		VOC - Volatile Organic Compounds (VOCs)	0.2	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.0482397
		Overall Control Efficiency: 0.0%				
		50000 - Formaldehyde	0.048	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.011577527999999
		Overall Control Efficiency: 0.0%				
		7647010 - Hydrochloric acid	0.10752	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.02593366272
		7664393 - Hydrogen fluoride (Hydrofluoric acid)	0.01554	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.00374822469
		7723140 - Phosphorus	0.00946	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.00228173781
		7664939 - Sulfuric acid (including acid mist expressed as H2SO4)	0.1001	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.02414396985
		108883 - Toluene	0.0062	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.0014954307
Emission Unit ID	Unit Process ID	Throughput			Operations	
10726 P-19 Fuel Oil Storage Tank	55420 Petroleum Products - Underground Tanks - Distillate Fuel #2: Breathing Loss	Process was not operating, or was not required to report emissions, during the reporting period.				
		Comment: Process was not operating or was not required to report emissions, during the reporting period.				
Emission Unit ID	Unit Process ID	Throughput			Operations	
10726 P-19 Fuel Oil Storage Tank	55421 Petroleum Products - Underground Tanks - Distillate Fuel #2: Working Loss	Process was not operating, or was not required to report emissions, during the reporting period.				
		Comment: Process was not operating or was not required to report emissions, during the reporting period.				
Emission Unit ID	Unit Process ID	Throughput			Operations	
10727 Open Coal Storage Pile 1	55422 Coal Mining, Cleaning, and Material Handling - Raw Coal Storage	Annual Throughput: 216,351.0 TONS (Coal) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Comment: Process was not operating or was not required to report emissions, during the reporting period.				
Emission Unit ID	Unit Process ID	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	0.0007	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.07572285
		PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)	0.0007	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.07572285
Emission Unit ID	Unit Process ID	Throughput			Operations	
30688 HJ-Ash1, P-13 Truck Loading and Unloading	130572 Bulk Materials Conveyors - Other Not Classified	Annual Throughput: 4,690.0 TONS (Product) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Comment: Process was not operating or was not required to report emissions, during the reporting period.				
Emission Unit ID	Unit Process ID	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	25.0	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.058625
		Overall Control Efficiency: 99.9%				
		PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)	25.0	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.058625
		Overall Control Efficiency: 99.9%				
Emission Unit ID	Unit Process ID	Throughput			Operations	

Emission Unit ID	Unit Process ID	Throughput	Operations			
33534 HU-Coal1, P-3 Railcar Unloading Rotary Dump	140563 Coal Mning, Cleaning, and Material Handling - Coal Transfer	Annual Throughput: 438,863.0 TONS (Coal) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.03104955725
		Overall Control Efficiency: 95.0%				
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.03104955725
		Overall Control Efficiency: 95.0%				
Emission Unit ID	Unit Process ID	Throughput	Operations			
39057 P-22 Emergency Diesel Generator	145955 Distillate Oil (Diesel) - Reciprocating: Exhaust	Annual Throughput: 16.36 MILLION BTUS (Heat) (Input)	Average Hours/Day: 1.0, Days/Week: 1.0, Weeks/Year: 10.0 Actual Hours/Year: 10.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Mnoxide	2.16	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0176688
		NOX - Nitrogen Oxides (NOx) expressed as NO2	9.43	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0771374
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	0.28	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0022904
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.28	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0022904
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.15912	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0013016016
		VOC - Volatile Organic Compounds (VOCs)	0.27699	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0022657782
Emission Unit ID	Unit Process ID	Throughput	Operations			
41566 HU-Ash2, P-14 Fly Ash Conveying Storage	149357 Bulk Materials Conveyors - Other Not Classified	Annual Throughput: 17,276.0 TONS (Product) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	25.0	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.21595
		Overall Control Efficiency: 99.9%				
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	25.0	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.21595
		Overall Control Efficiency: 99.9%				
Emission Unit ID	Unit Process ID	Throughput	Operations			
41570 HU-Ash3, P-15 Fly Ash Silo Load Out	149359 Bulk Materials Conveyors - Other Not Classified	Annual Throughput: 14,647.0 TONS (Product) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	25.0	TON - TONS	7_2 - Manufacturer Test Data with OK DEQ Approval (pre-Control EF)	0.1830875
		Overall Control Efficiency: 99.9%				
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	25.0	TON - TONS	7_2 - Manufacturer Test Data with OK DEQ Approval (pre-Control EF)	0.1830875
		Overall Control Efficiency: 99.9%				
Emission Unit ID	Unit Process ID	Throughput	Operations			
41607 HU-Coal2, P-4 Conveying (from Railcar)	149399 Coal Mning, Cleaning, and Material Handling - Coal Transfer	Annual Throughput: 438,863.0 TONS (Coal) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.03104955725
		Overall Control Efficiency: 95.0%				
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.03104955725
		Overall Control Efficiency: 95.0%				
Emission Unit ID	Unit Process ID	Throughput			Operations	
41608 HU-Coal3, P-5 Crushing	149400 Coal Mning, Cleaning, and Material Handling - Crushing	Annual Throughput: 438,863.0 TONS (Coal) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	0.006	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.06582945
		Overall Control Efficiency: 95.0%				
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.006	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.06582945
		Overall Control Efficiency: 95.0%				
Emission Unit ID	Unit Process ID	Throughput			Operations	
41609 HU-Coal4, P-6 Active Storage Pile-Load in by Conveyor	149402 Coal Mning, Cleaning, and Material Handling - Coal Transfer	Annual Throughput: 125,900.0 TONS (Coal) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.1781485
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.1781485
Emission Unit ID	Unit Process ID	Throughput			Operations	
41610 HU-Coal5, P-7 Active Storage Pile-Load out under Pile Reclaim	149404 Coal Mning, Cleaning, and Material Handling - Coal Transfer	Annual Throughput: 476,326.0 TONS (Coal) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.00067400129
		Overall Control Efficiency: 99.9%				
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.00067400129
		Overall Control Efficiency: 99.9%				
Emission Unit ID	Unit Process ID	Throughput			Operations	
41611 HU-Coal6, P-8 Inactive Storage Pile-Load in by Conveyor	149406 Coal Mning, Cleaning, and Material Handling - Coal Transfer	Annual Throughput: 131,708.0 TONS (Coal) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.046591705
		Overall Control Efficiency: 75.0%				
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.00283	TON - TONS	10_2 - OK DEQ Approved Method (pre-Control EF)	0.046591705
		Overall Control Efficiency: 75.0%				
Emission Unit ID	Unit Process ID	Throughput			Operations	

Emission Unit ID	Unit Process ID	Throughput	Operations			
44151 1A Cooling Tower	152422 Process Cooling - Other Not Classified	Annual Throughput: 18,710,688.0 1000 GALLONS (Cooling Water) (Input)		Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 19.0		
				Actual Hours/Year: 3,266.0		
				Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	0.000738779	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	6.911531684976
		PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)	0.000738779	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	6.911531684976
Emission Unit ID	Unit Process ID	Throughput	Operations			
44154 1B Cooling Tower	152424 Process Cooling - Other Not Classified	Annual Throughput: 18,710,688.0 1000 GALLONS (Cooling Water) (Input)		Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0		
				Actual Hours/Year: 8,760.0		
				Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	0.000738779	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	6.911531684976
		PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)	0.000738779	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	6.911531684976
Emission Unit ID	Unit Process ID	Throughput	Operations			
44157 Auxiliary Cooling Tower	152426 Process Cooling - Other Not Classified	Annual Throughput: 6,307,200.0 1000 GALLONS (Cooling Water) (Input)		Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0		
				Actual Hours/Year: 8,760.0		
				Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	0.000495233	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	1.5617667888
		PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)	0.000495233	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	1.5617667888
Emission Unit ID	Unit Process ID	Throughput	Operations			
46314 P-20 Gasoline Storage Tanks	154892 Petroleum Products - Underground Tanks - Other Liquids: Breathing Loss	Annual Throughput: 10.0 1000 GALLONS (Petroleum Liquid) (Input)		Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0		
				Actual Hours/Year: 8,760.0		
				Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		VOC - Volatile Organic Compounds (VOCs)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.033
Emission Unit ID	Unit Process ID	Throughput	Operations			
46314 P-20 Gasoline Storage Tanks	154893 Petroleum Products - Underground Tanks - Other Liquids: Working Loss	Annual Throughput: 10.0 1000 GALLONS (Petroleum Liquid) (Input)		Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0		
				Actual Hours/Year: 8,760.0		
				Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		VOC - Volatile Organic Compounds (VOCs)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.025
Emission Unit ID	Unit Process ID	Throughput	Operations			
47548 P-21 Diesel Storage Tank	156195 Petroleum Products - Underground Tanks - Other Liquids: Breathing Loss	Process was not operating, or was not required to report emissions, during the reporting period.				
				Comment: Process was not operating or was not required to report emissions, during the reporting period.		

Emission Unit ID	Unit Process ID	Throughput	Operations
47548 P-21 Diesel Storage Tank	156196 Petroleum Products - Underground Tanks - Other Liquids: Working Loss	Process was not operating, or was not required to report emissions, during the reporting period.	
Comment: Process was not operating or was not required to report emissions, during the reporting period.			
Emission Unit ID	Unit Process ID	Throughput	Operations
119093 Silo 1 Additive A SFF-10	237263 Bulk Materials Conveyors - Other Not Classified	Annual Throughput: 29.0 TONS (Product) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM) Emis. Factor UOM Calculation Method Estimated Emis. (Tons)
		PM10-FRI - PM10 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.003625
		Overall Control Efficiency: 99.0%	
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.003625
		Overall Control Efficiency: 99.0%	
Emission Unit ID	Unit Process ID	Throughput	Operations
119636 Silo 2 Powdered Activated Carbon SB-24	237266 Bulk Materials Conveyors - Other Not Classified	Annual Throughput: 87.0 TONS (Product) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM) Emis. Factor UOM Calculation Method Estimated Emis. (Tons)
		PM10-FRI - PM10 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.010875
		Overall Control Efficiency: 99.0%	
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.010875
		Overall Control Efficiency: 99.0%	
Emission Unit ID	Unit Process ID	Throughput	Operations
178455 HU-Ash-5, P-17 Bottom Ash Truck Loading and Unloading	303888 Bulk Materials Unloading Operation - Mineral: Specify in Comments	Annual Throughput: 6,417.0 TONS (Product) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM) Emis. Factor UOM Calculation Method Estimated Emis. (Tons)
		PM10-FRI - PM10 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.0802125
		Overall Control Efficiency: 99.9%	
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.0802125
		Overall Control Efficiency: 99.9%	
Emission Unit ID	Unit Process ID	Throughput	Operations
178483 HU-Ash-6, P-18 Bottom Ash Conveyor Discharge	303907 Bulk Materials Conveyors - Other Not Classified	Annual Throughput: 6,417.0 TONS (Product) (Output)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM) Emis. Factor UOM Calculation Method Estimated Emis. (Tons)
		PM10-FRI - PM10 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.0802125
		Overall Control Efficiency: 99.9%	
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	25.0 TON - TONS 10_2 - OK DEQ Approved Method (pre-Control EF) 0.0802125
		Overall Control Efficiency: 99.9%	

Emission Unit ID	Unit Process ID	Throughput			Operations	
187148 Open Coal Storage Pile 2	313219 Open Coal Storage Pile 2	Annual Throughput: 216,351.0 TONS (Coal) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FRI - PM10 - Primary (Filterable + Condensible)	0.0007	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.07572285
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.0007	TON - TONS	10_3 - OK DEQ Approved Method (no Control EF)	0.07572285
Emission Unit ID	Unit Process ID	Throughput			Operations	
187163 P-24A Emergency Engine	313238 P-24A Emergency Engine	Annual Throughput: 11.76 MILLION BTUS (Heat) (Input)			Average Hours/Day: 1.0, Days/Week: 1.0, Weeks/Year: 8.0 Actual Hours/Year: 8.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide	0.295	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0017346
		NOX - Nitrogen Oxides (NOx) expressed as NO2	2.599	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.01528212
		PM10-FRI - PM10 - Primary (Filterable + Condensible)	0.13	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0007643999999999
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.13	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0007643999999999
		VOC - Volatile Organic Compounds (VOCs)	0.061	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.00035868
Emission Unit ID	Unit Process ID	Throughput			Operations	
187164 P-25A Emergency Engine	313239 P-25A Emergency Engine	Annual Throughput: 7.0 MILLION BTUS (Heat) (Input)			Average Hours/Day: 1.0, Days/Week: 1.0, Weeks/Year: 5.0 Actual Hours/Year: 5.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide	0.295	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0010325
		NOX - Nitrogen Oxides (NOx) expressed as NO2	2.599	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	0.0090965